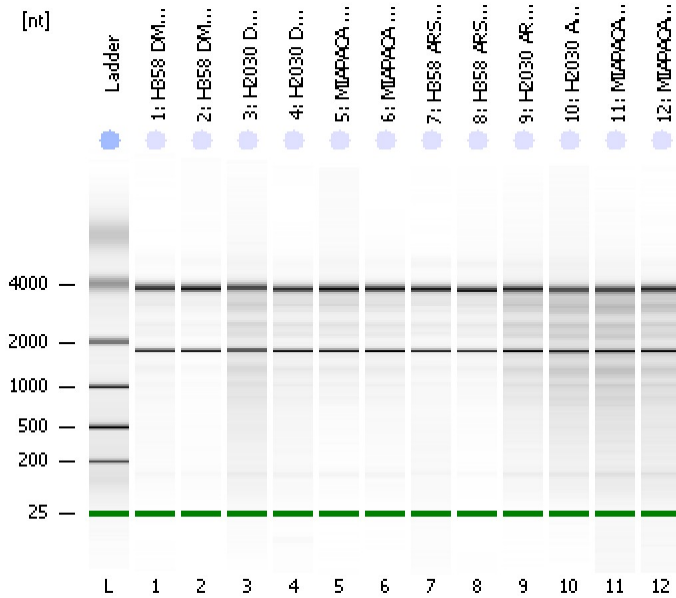


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

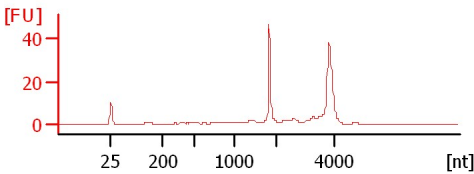
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
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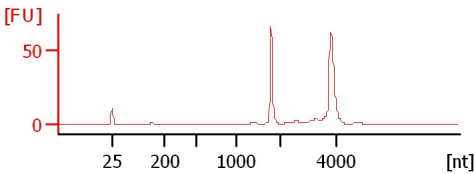
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

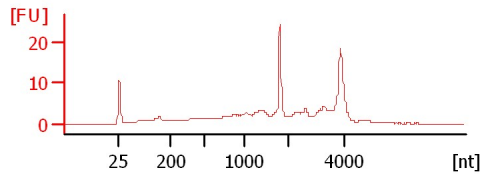
1: H358 DMSO rep 1
HiSeq 731 Total RNA QC
RIN: 8.60



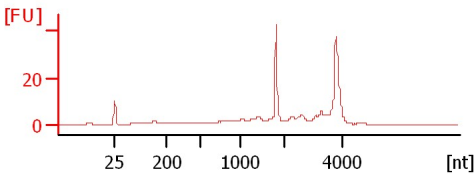
2: H358 DMSO rep 2
HiSeq 731 Total RNA QC
RIN: 9.60



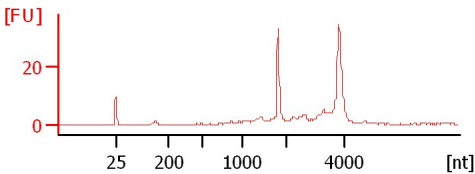
3: H2030 DMSO rep 1
HiSeq 731 Total RNA QC
RIN: 6.90



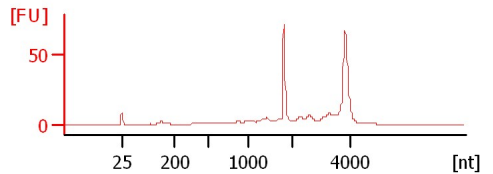
4: H2030 DMSO rep 2
HiSeq 731 Total RNA QC
RIN: 7.60



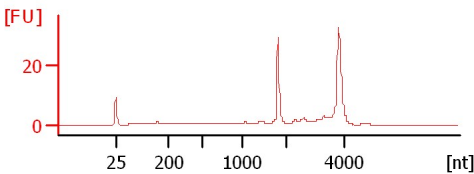
5: MIAPACA DMSO rep 1
HiSeq 731 Total RNA QC
RIN: 8.70



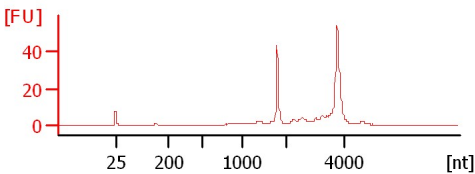
6: MIAPACA DMSO rep 2
HiSeq 731 Total RNA QC
RIN: 8



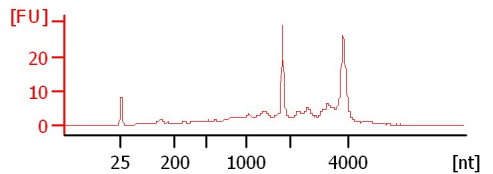
7: H358 ARS rep 1
HiSeq 731 Total RNA QC
RIN: 8.80



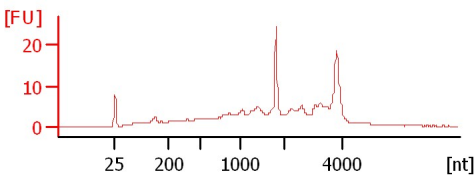
8: H358 ARS rep 2
HiSeq 731 Total RNA QC
RIN: 8.80



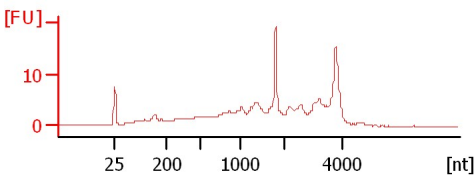
9: H2030 ARS rep 1
HiSeq 731 Total RNA QC
RIN: 7



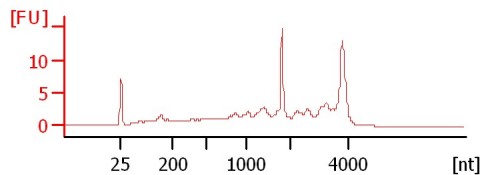
10: H2030 ARS rep 2
HiSeq 731 Total RNA QC
RIN: 6.30



11: MIAPACA ARS rep 1
HiSeq 731 Total RNA QC
RIN: 6.40



12: MIAPACA ARS rep 2
HiSeq 731 Total RNA QC
RIN: 6.80



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1: H358 DMSO rep 1	HiSeq 731 Total RNA QC	✓	RIN: 8.60	
2: H358 DMSO rep 2	HiSeq 731 Total RNA QC	✓	RIN: 9.60	
3: H2030 DMSO rep 1	HiSeq 731 Total RNA QC	✓	RIN: 6.90	
4: H2030 DMSO rep 2	HiSeq 731 Total RNA QC	✓	RIN: 7.60	
5: MIAPACA DMSO rep 1	HiSeq 731 Total RNA QC	✓	RIN: 8.70	
6: MIAPACA DMSO rep 2	HiSeq 731 Total RNA QC	✓	RIN:8	
7: H358 ARS rep 1	HiSeq 731 Total RNA QC	✓	RIN: 8.80	
8: H358 ARS rep 2	HiSeq 731 Total RNA QC	✓	RIN: 8.80	
9: H2030 ARS rep 1	HiSeq 731 Total RNA QC	✓	RIN:7	
10: H2030 ARS rep 2	HiSeq 731 Total RNA QC	✓	RIN: 6.30	
11: MIAPACA ARS rep 1	HiSeq 731 Total RNA QC	✓	RIN: 6.40	
12: MIAPACA ARS rep 2	HiSeq 731 Total RNA QC	✓	RIN: 6.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

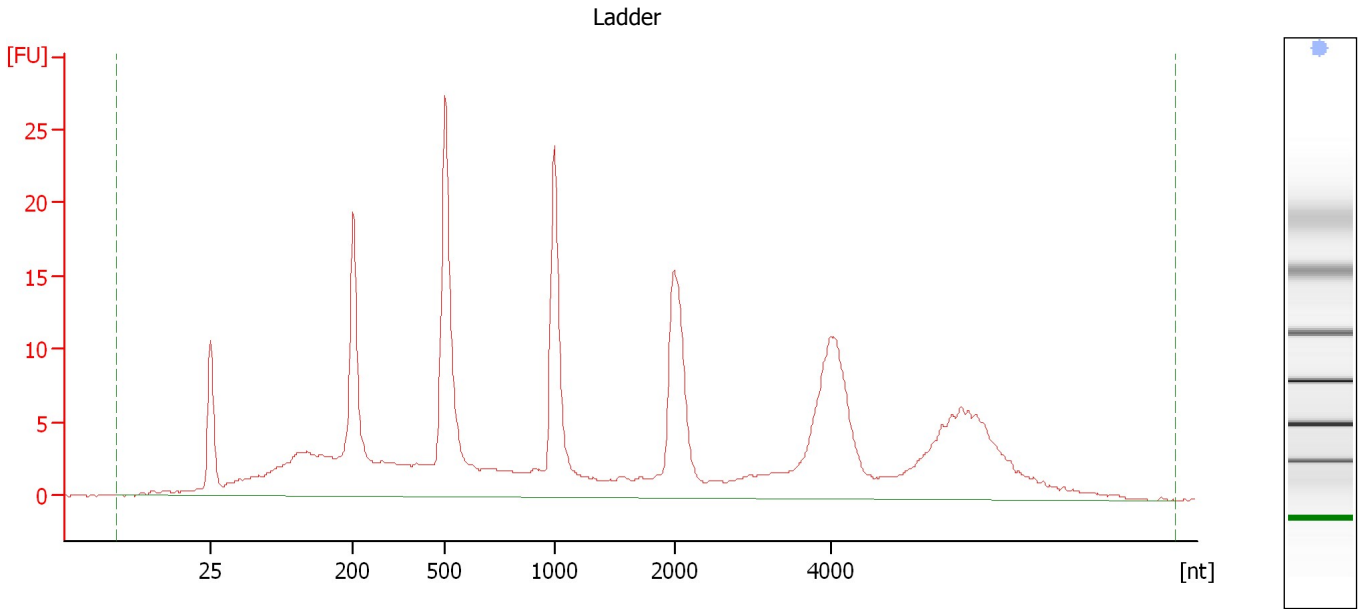
Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary



Overall Results for Ladder

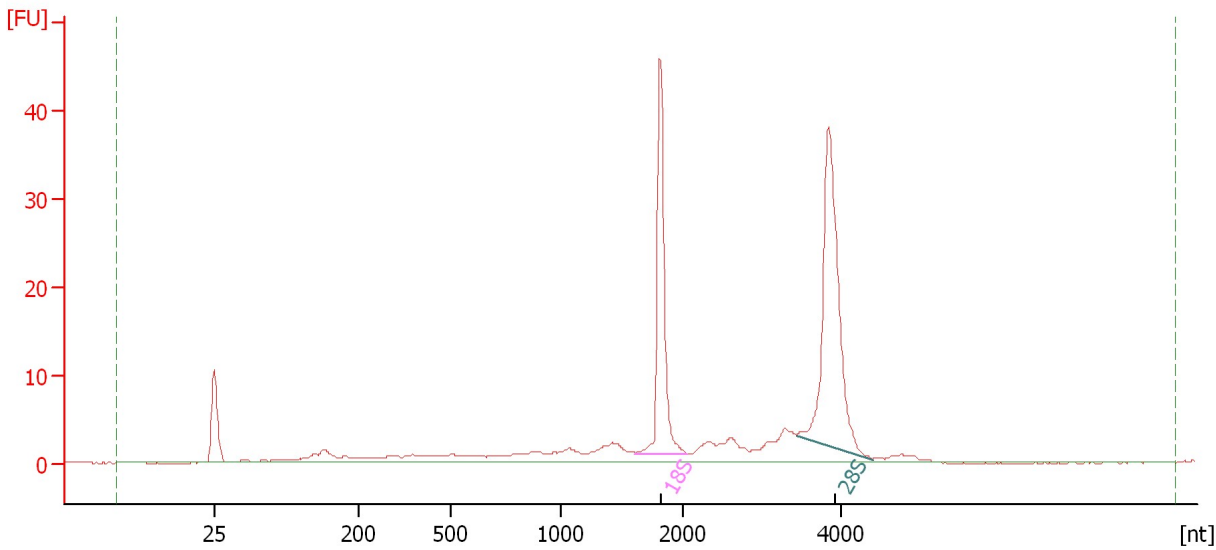
RNA Area:	327.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

1: H358 DMSO rep 1 [HiSeq 731 Total RNA QC]



Overall Results for sample 1 : 1: H358 DMSO rep 1

RNA Area: 179.6 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 82 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.60

Fragment table for sample 1 : 1: H358 DMSO rep 1

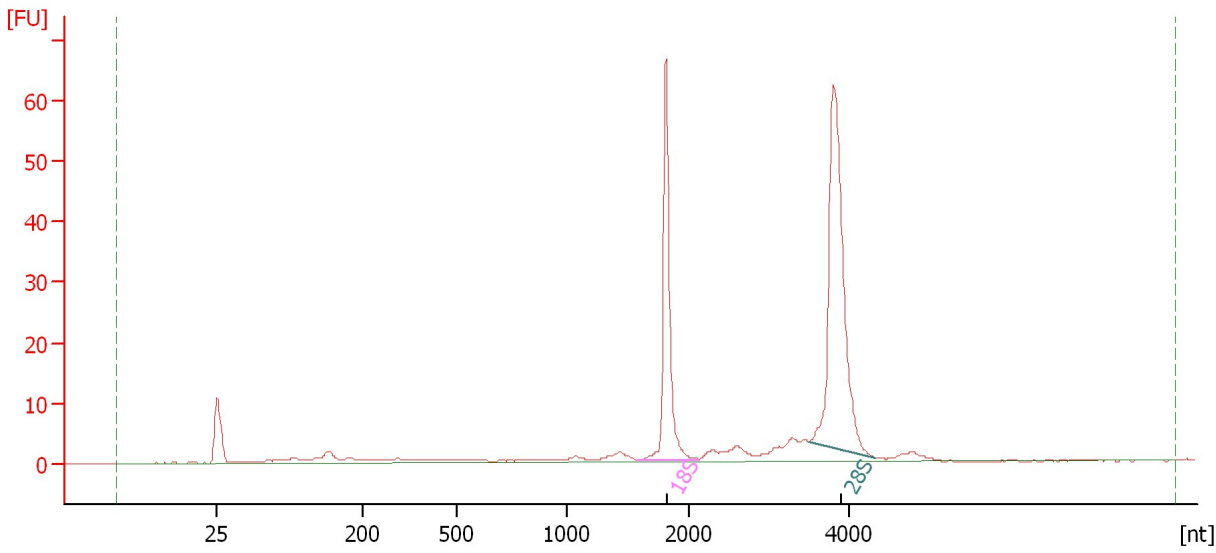
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	2,058	35.9	20.0
28S	3,434	4,392	57.4	32.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

2: H358 DMSO rep 2 [HiSeq 731 Total RNA QC]



Overall Results for sample 2 : 2: H358 DMSO rep 2

RNA Area: 211.1 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 97 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.60

Fragment table for sample 2 : 2: H358 DMSO rep 2

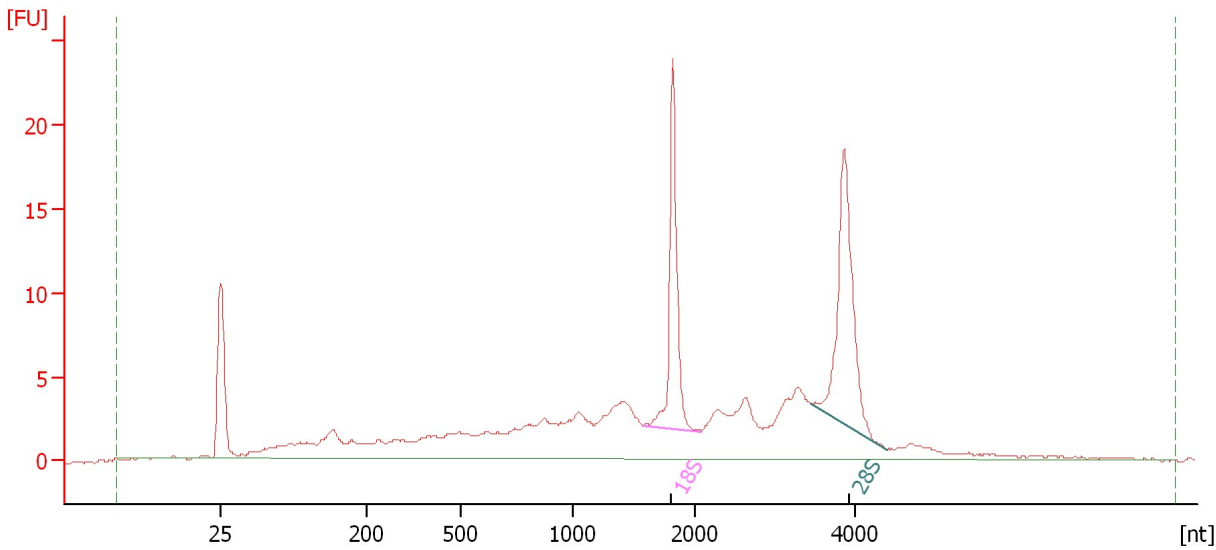
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	2,115	51.5	24.4
28S	3,496	4,327	87.4	41.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

3: H2030 DMSO rep 1 [HiSeq 731 Total RNA QC]



Overall Results for sample 3 : 3: H2030 DMSO rep 1

RNA Area: 182.1 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 83 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 6.90

Fragment table for sample 3 : 3: H2030 DMSO rep 1

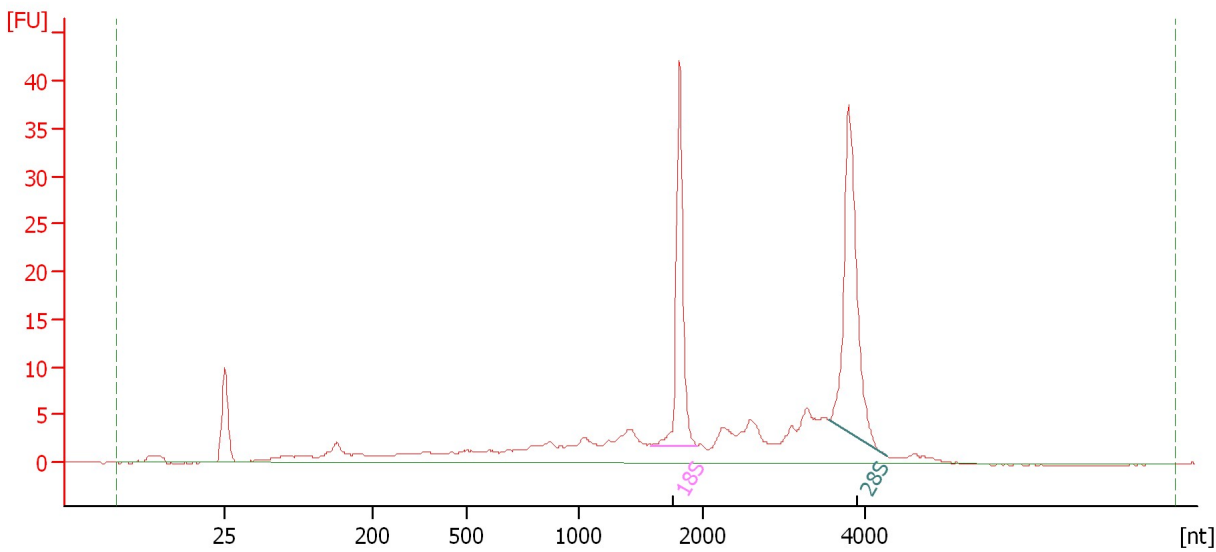
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	2,078	18.6	10.2
28S	3,450	4,383	24.6	13.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

4: H2030 DMSO rep 2 [HiSeq 731 Total RNA QC]



Overall Results for sample 4 : 4: H2030 DMSO rep 2

RNA Area: 211.3 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 97 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.60

Fragment table for sample 4 : 4: H2030 DMSO rep 2

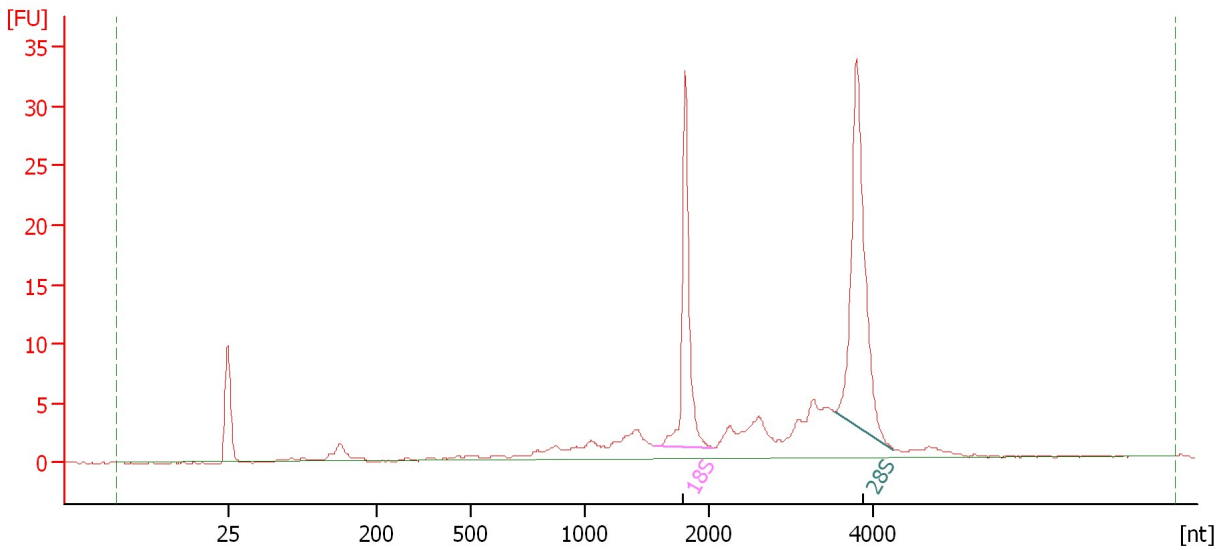
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	1,950	30.4	14.4
28S	3,562	4,276	43.0	20.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

5: MIAPACA DMSO rep 1 [HiSeq 731 Total RNA QC]



Overall Results for sample 5 : 5: MIAPACA DMSO rep 1

RNA Area: 141.3 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 65 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.70

Fragment table for sample 5 : 5: MIAPACA DMSO rep 1

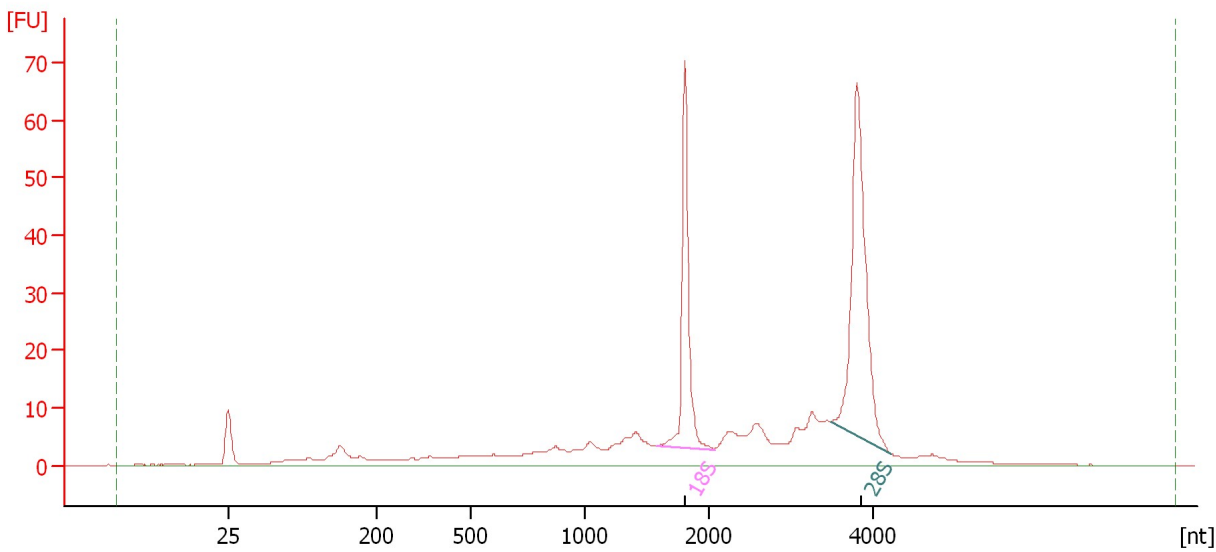
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,568	2,045	26.0	18.4
28S	3,543	4,266	40.0	28.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

6: MIAPACA DMSO rep 2 [HiSeq 731 Total RNA QC]



Overall Results for sample 6 : 6: MIAPACA DMSO rep 2

RNA Area: 357.3 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 163 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN:8

Fragment table for sample 6 : 6: MIAPACA DMSO rep 2

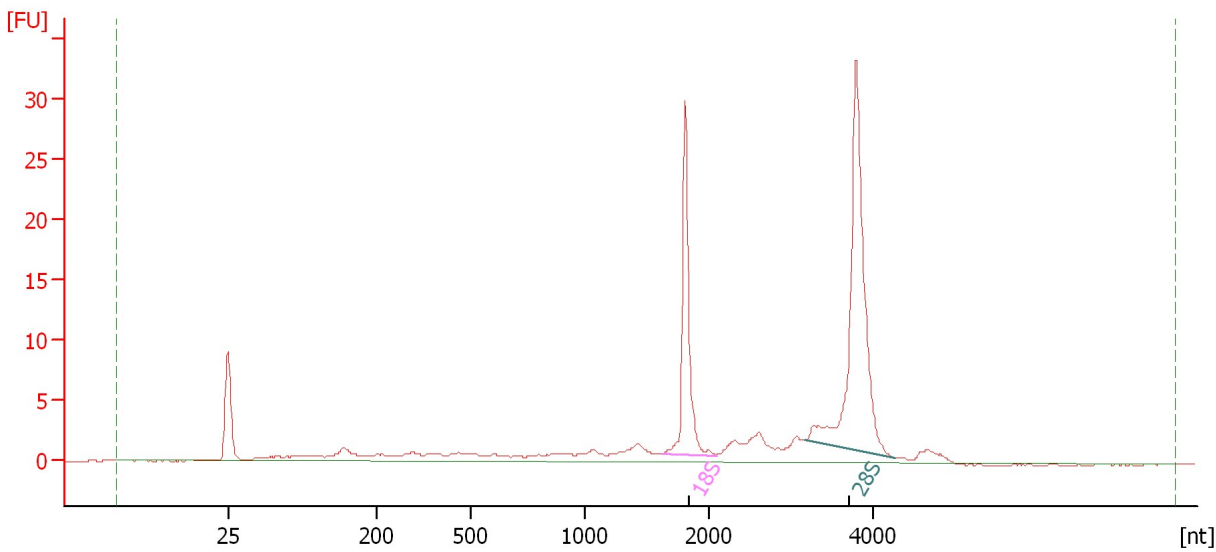
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	2,059	53.0	14.8
28S	3,504	4,239	84.7	23.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
 Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

7: H358 ARS rep 1 [HiSeq 731 Total RNA QC]



Overall Results for sample 7 : 7: H358 ARS rep 1

RNA Area:	125.4	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	57 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.80

Fragment table for sample 7 : 7: H358 ARS rep 1

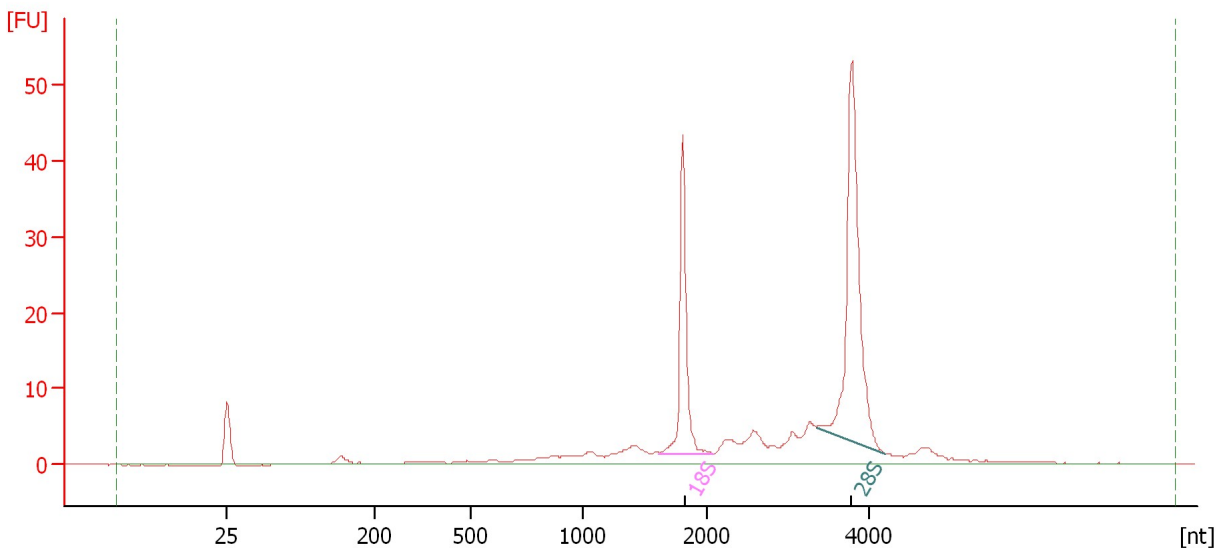
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	2,085	22.7	18.1
28S	3,175	4,292	44.5	35.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

8: H358 ARS rep 2 [HiSeq 731 Total RNA QC]



Overall Results for sample 8 : 8: H358 ARS rep 2

RNA Area: 192.0 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 88 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.80

Fragment table for sample 8 : 8: H358 ARS rep 2

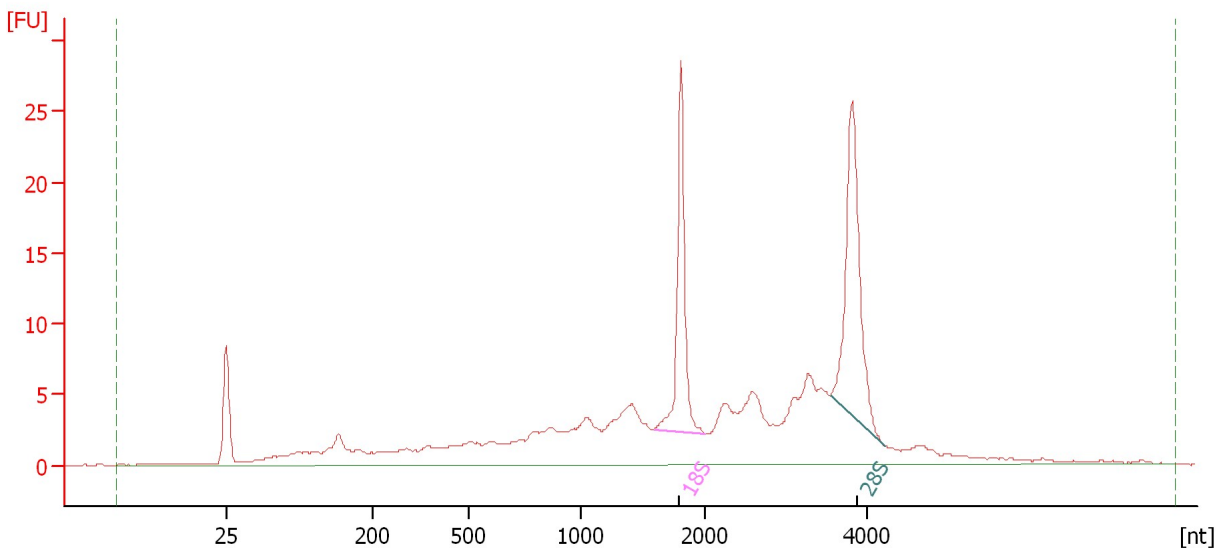
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	2,058	32.7	17.0
28S	3,348	4,190	59.6	31.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
 Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

9: H2030 ARS rep 1 [HiSeq 731 Total RNA QC]



Overall Results for sample 9 : 9: H2030 ARS rep 1

RNA Area:	222.4	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	102 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN:7

Fragment table for sample 9 : 9: H2030 ARS rep 1

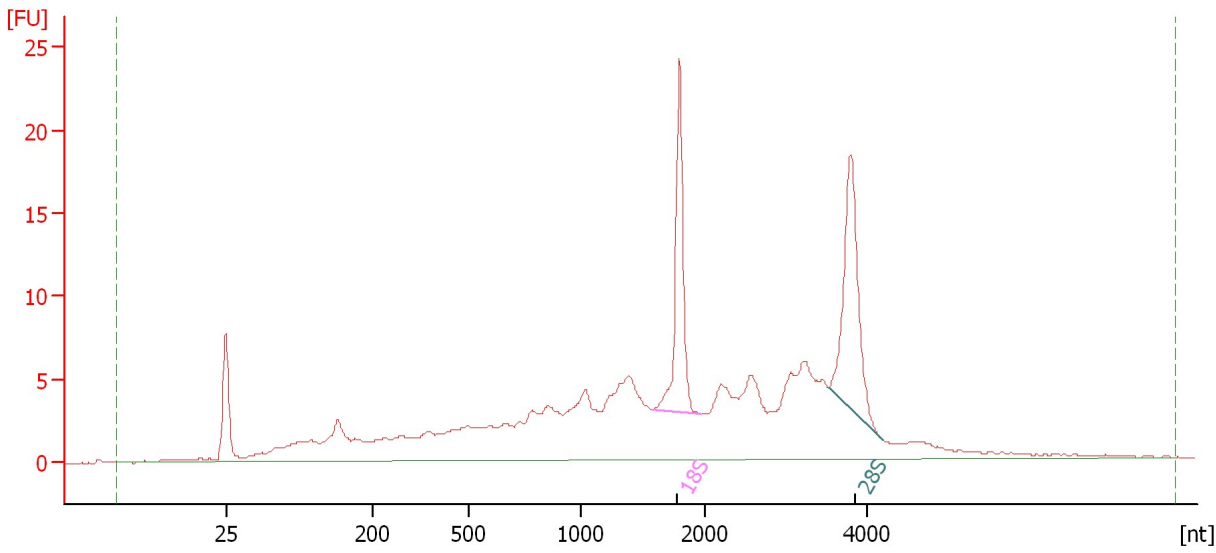
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,994	22.4	10.1
28S	3,547	4,207	30.3	13.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

10: H2030 ARS rep 2 [HiSeq 731 Total RNA QC]



Overall Results for sample 10 : 10: H2030 ARS rep 2

RNA Area: 236.7 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 108 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 6.30

Fragment table for sample 10 : 10: H2030 ARS rep 2

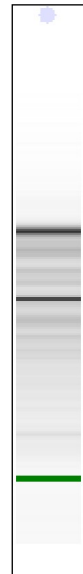
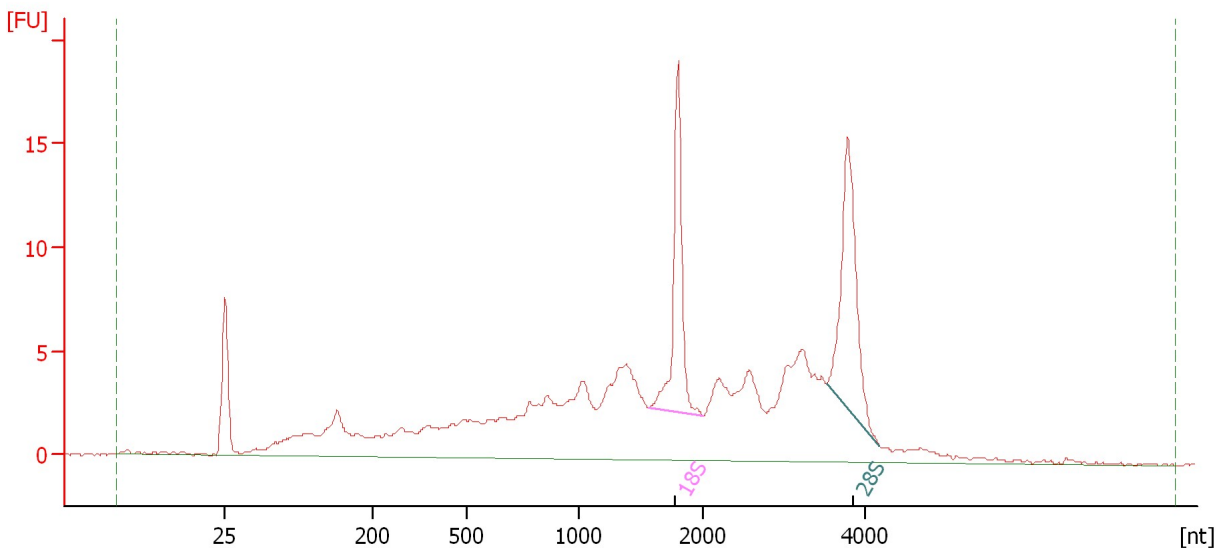
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,968	18.2	7.7
28S	3,521	4,180	22.0	9.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
 Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

11: MIAPACA ARS rep 1 [HiSeq 731 Total RNA QC]



Overall Results for sample 11 : 11: MIAPACA ARS rep 1

RNA Area:	202.4	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	93 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 6.40

Fragment table for sample 11 : 11: MIAPACA ARS rep 1

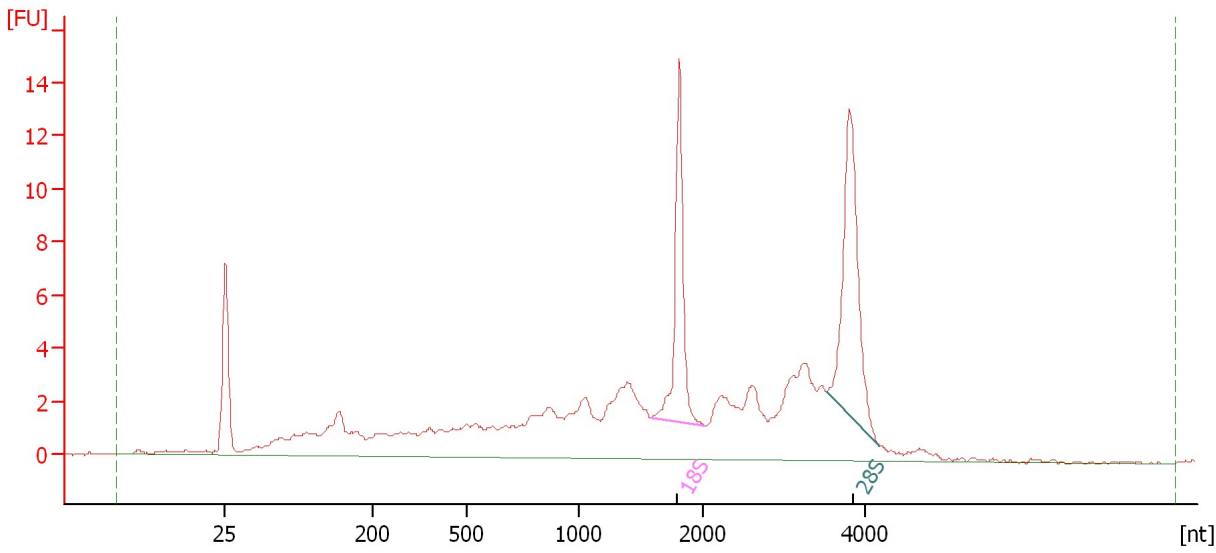
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,554	1,993	15.7	7.8
28S	3,523	4,183	19.4	9.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
 Modified: 11/3/2016 4:14:49 PM

Electropherogram Summary Continued ...

12: MIAPACA ARS rep 2 [HiSeq 731 Total RNA QC]



Overall Results for sample 12 : 12: MIAPACA ARS rep 2

RNA Area:	138.1	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	63 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 6.80

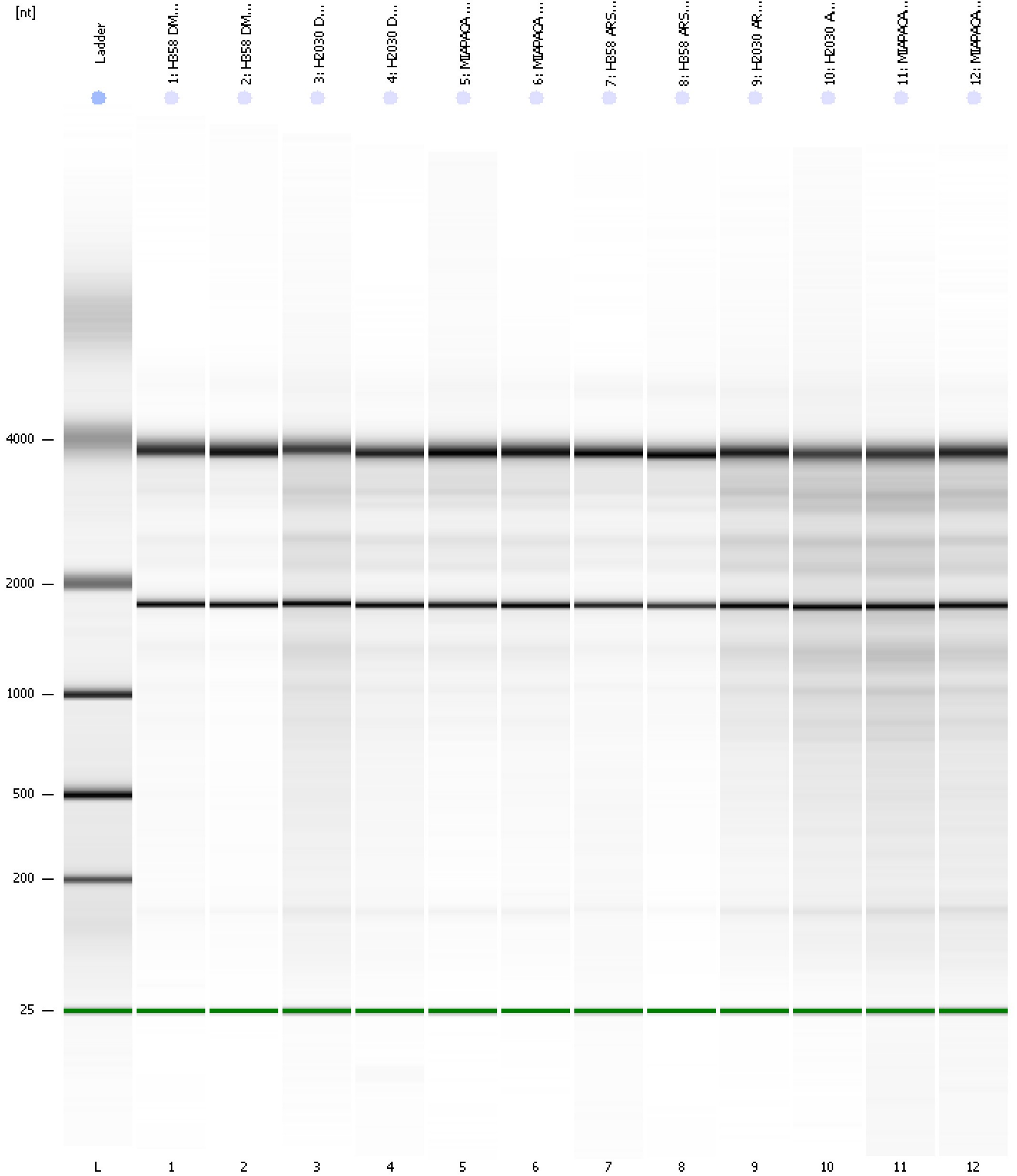
Fragment table for sample 12 : 12: MIAPACA ARS rep 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	2,029	12.1	8.7
28S	3,523	4,183	16.9	12.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
Modified: 11/3/2016 4:14:49 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad

Created: 11/3/2016 3:51:42 PM
 Modified: 11/3/2016 4:14:49 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		11/3/2016 4:14:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_005.xad)		Instrument	Run		11/3/2016 3:51:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/3/2016 3:51:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/3/2016 3:51:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/3/2016 3:51:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/3/2016 3:51:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/3/2016 3:51:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/3/2016 3:51:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1